		Application No. Applicant(s)		
		10/006,605	SMITH ET AL.	
Notice of Allowabilit	} 	Examiner	Art Unit	
		Merilyn P. Nguyen	2163	
The MAILING DATE of this co. All claims being allowable, PROSECUTION O herewith (or previously mailed), a Notice of All NOTICE OF ALLOWABILITY IS NOT A GRA of the Office or upon petition by the applicant.	N THE MERITS IS (Cowance (PTOL-85) or NT OF PATENT RIG	OR REMAINS) CLOSED in this appropriate communication HTS. This application is subject to	plication. If not include will be mailed in due of	ed course. THIS
1. \boxtimes This communication is responsive to $\underline{08}$	<u>3/01/2006</u> .			
2. The allowed claim(s) is/are <u>1-28</u> .				
Acknowledgment is made of a claim for a) ☐ All b) ☐ Some* c) ☐ Non 1. ☐ Certified copies of the prior	e of the:			
Certified copies of the prior	ity documents have b	een received in Application No	·	
	•	ments have been received in this	national stage applicat	ion from the
International Bureau (PCT	Rule 17.2(a)).			
* Certified copies not received:		•		
Applicant has THREE MONTHS FROM THE noted below. Failure to timely comply will re THIS THREE-MONTH PERIOD IS NOT EXT	sult in ABANDONME		complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARAT INFORMAL PATENT APPLICATION (P				OTICE OF
5. CORRECTED DRAWINGS (as "replace	ement sheets") must l	pe submitted.		
(a) including changes required by the f	Notice of Draftspersor	n's Patent Drawing Review (PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper N	o./Mail Date			
(b) ☐ including changes required by the a Paper No./Mail Date	attached Examiner's A	Amendment / Comment or in the O	Office action of	
Identifying indicia such as the application nueach sheet. Replacement sheet(s) should be				back) of
6. DEPOSIT OF and/or INFORMATIOn attached Examiner's comment regarding				ote the
·				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		5. Notice of Informal P	atent Application (PTC)-15 2)
2. Notice of Draftperson's Patent Drawing F	Review (PTO-948)	 Interview Summary Paper No./Mail Dat 		
3. Information Disclosure Statements (PTO Paper No./Mail Date 06/15/2006	-1449 or PTO/SB/08)			
4. Examiner's Comment Regarding Require of Biological Material	ement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allov	vance
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DETAILED ACTION

1. In response to the communication dated August 01, 2006, claims 1-28 are active in this application and in the condition for allowance.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Marcel K. Bingham, Reg. No. 42,327 on 08/18/06.

The application has been amended as follows:

1. (Currently Amended) A <u>computer-implemented</u> method, the method comprising the steps of:

a database management system receiving a request to generate a materialized view that contains objects of an object class;

in response to receiving said request, said database management system creating said materialized view;

said database management system performing operations on said objects as instances of said object class;

wherein said object class defines attributes and one or more routines to invoke to operate on the state of the objects of said object class;

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wherein attribute values of an object contained in said materialized view are derived from one or more base tables;

wherein the step of creating said materialized view includes creating a container table, separate from said one or more base tables, that includes corresponding columns that correspond to said attributes and that hold the attribute values of said attributes; and

storing said attribute values of said attributes in said container table.

2. Claims 15-28, line 1, "A computer-readable medium carrying" has been changed to --A computer-readable storage medium storing--.

Allowable subject matter

3. The following is an examiner's statement of reason for allowance:

None of the references of record Harumi and Elke (in the article "Using Object-Oriented Principles to Optimize Update Propagation to Materialized Views"), Raitto (US Patent No. 5,991,754) and Lieuwen (US Patent No. 6,272,502) teaches or suggests the claimed (Claim 1) invention having, in addition to the other limitations in the claims, the limitation of "wherein attribute values of an object contained in said materialized view are derived from one or more base tables; wherein the step of creating said materialized view includes creating a container table, separate from said one or more base tables, that includes corresponding columns that correspond to said attributes and that hold the attribute values of said attributes".

Dependent claims 2-28 are allowable because they depend from base claims.

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4. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance".

Conclusion

5. A shortened statutory period for response to this action is set to expire 3 (three) months

and 0 (zero) day from the day of this letter. Failure to respond within the period for response

will cause the application to become abandoned (see M.P.E.P 710.02(b)).

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Liu U.S Patent No. 6,741,997 discloses instantiating objects in distributed database

systems.

Cochrane U.S Patent No. 6,339,769 discloses query optimization by transparently

altering properties of relational tables using materialized view.

Norcott U.S Patent No. 6,334,128 discloses method and apparatus for efficiently

refreshing sets of summary tables and materialized views in a database management system.

Chenho Kung discloses, "Object subclass hierarchy in SQL: A Simple Approach", 1990.

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Harumi A. Kuno and Elke A Rundersteiner discloses, "Incremental Maintenance of

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Materialized Object-Oriented Views in Multiview: Strategies and Performance Evaluation",

1998.

Jixue Liu, Millist Vincent and Mukesh Mohania disclose, "Incremental Maintenance of

Nested Relational Views".

Fawaz s. Al-Anzi and David L. Spooner discloses, "Modeling Behavior, a Step Towards

Defining Functionally Correct Views of Complex Objects in concurrent Engineering, 1994.

Vivekanand Gpalkrishnan, Qing Li and Kamalakar Karlapalem disclose, "Issues of

Object-Relational view Design in Data Warehousing Environment", 1998.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Merilyn P Nguyen whose telephone number is 571-272-4026.

The examiner can normally be reached on M-F: 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don Wong can be reached on 571-272-1834. The fax phone numbers for the

organization where this application or proceeding is assigned are 571-273-8300 for regular

communications and 703-746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-3900.

ΜN

August 18, 2006

DON WONG

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100